

NOTICE

All drawings located at the end of the document.

CORRES CONTROL
OUTGOING LTR NO

DOE ORDER #

02 RF 00618



KAISER • HILL
C O M P A N Y

DIST	LTR	ENC
BRAILSFORD, M D		
FERRERA, D W	X	
FERRI, M S		
FULTON, J C		
GIACOMINI, J		
HALL, L		
MARTINEZ, L A		
PARKER, A M		
POWERS, K		
SCOTT, G K		
SHELTON, D C	X	
SPEARS, M S		
TRICE, K D		
VOORHEIS, G M		
BUTLER, J L	X	X
SERREZE, S	X	X
COR CONTROL	X	X
ADMN RECORD	X	X
WASTE REC. CTR.		
TRAFFIC		
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CLASSIFICATION		
UCNI		
UNCLASSIFIED		
CONFIDENTIAL		
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IN REPLY TO RFP CC
NO

ACTION ITEM STATUS

☐ PARTIAL/OPEN
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LTR APPROVALS

ORIG & TYPIST INITIALS

February 28, 2002

02-RF-00618

**Ms Norma Castaneda
Environmental, Safety and Health
Program Assessment
DOE, RFFO**

**TRANSMITTAL OF THE DRAFT INDUSTRIAL AREA SAMPLING AND ANALYSIS
PLAN ADDENDUM #IA-02-03 – JLB-010-02**

Enclosed are 8 copies of the Draft Industrial Area Sampling and Analysis Plan Addendum #IA-02-03

Copies are for DOE and the regulatory agencies. Submittal of these documents to the Colorado Department of Public Health and the Environment and the U.S. Environmental Protection Agency will start the official 14-day review and approval period.

If you have any questions, please contact me at extension 5245

R. Lee Malone
J Lane Butler for

J Lane Butler *for*
Manager, Environmental Restoration Programs

JLB dm

Orig and 1 cc - Norma Castaneda

Enclosures
As Stated

**ADMIN RECORD**

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-Mailing Address P.O. Box 464, Golden, Colorado 80402 0464

LA-A-000925

1/21

**Draft Industrial Area
Sampling and Analysis Plan
Fiscal Year 2002
Addendum #IA-02-03**



February 2001

ADMIN RECORD

2

**Industrial Area
Sampling and Analysis Plan
Fiscal Year 2002
Addendum #IA-02-03**

Approval received from the Colorado Department of Public Health and Environment

Approval letter contained in the Administrative Record

TABLE OF CONTENTS

1 0	INTRODUCTION	1
2 0	EXISTING CHARACTERIZATION INFORMATION	1
3 0	SAMPLING	1
4 0	MAPS	3
5 0	REFERENCES	3

LIST OF TABLES

Table 1	Addendum #IA-02-03 IHSS Groups	1
Table 2	Potential Contaminants of Concern	4
Table 3	Sampling Specifications	6

LIST OF FIGURES AND MAPS

Figure 1	FY02 IHSS Group Location Map	2
	IHSS Group 800-4 Maps	13

ACRONYMS

Am	americium
As	arsenic
Ba	barium
Co	cobalt
Cu	copper
Fe	iron
FY	Fiscal Year
Hg	mercury
HPGe	high-purity germanium
HRR	Historical Release Report
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
Li	lithium
Mg	magnesium
mg/kg	milligrams per kilogram
Mn	manganese
Ni	nickel
NO ₂	nitrite
NO ₃	nitrate
OPWL	Original Process Waste Lines
PAC	Potential Area of Concern
pCi/g	picocuries per gram
PCOC	potential contaminant of concern
Pu	plutonium
Ra	radium
SAP	Sampling and Analysis Plan
Sr	strontium
SVOC	semivolatile organic compound
U	uranium
UBC	Under Building Contamination
µg/kg	micrograms per kilogram
VOC	volatile organic compound
Zn	zinc

1.0 INTRODUCTION

This Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) (DOE 2001a) Addendum #IA-02-03 includes Individual Hazardous Substance Site (IHSS) Group-specific information, sampling locations, and potential contaminants of concern (PCOCs) for IHSSs, Potential Areas of Concern (PACs), and Under Building Contamination (UBC) Sites proposed for characterization during Fiscal Year (FY)02. This IASAP Addendum is a supplement to the IASAP (DOE 2001a). The location of the IHSS Groups and IHSSs, PACs, and UBC Sites proposed for FY02 are shown on Figure 1. There are no PACs in IHSS Group 800-4.

This IASAP Addendum includes data and proposed sampling locations for the IHSS Groups and associated IHSSs, PACs, and UBC Sites listed in Table 1.

Table 1
Addendum #IA-02-03 IHSS Groups

IHSS Group	IHSS/PAC/UBC Site
800-4	UBC 886 – Critical Mass Laboratory
	800-164.2 – Radioactive Site #2 800 Area Building 886 Spill
	000-121 – OPWL 250-Gallon Sump
	000-121 – OPWL Two 250-Gallon Steel Tanks (Tanks 21 and 22)
	000-121 – OPWL 500-Gallon Steel Tank (Tank 27)
	000-121 – OPWL

2.0 EXISTING CHARACTERIZATION INFORMATION

Existing data for the IHSSs, PACs, and UBC Sites are available in Appendix C of the IASAP (DOE 2001a). Existing concentrations and activities above the background mean plus two standard deviations or method detection limits are shown on maps in Section 4.0, where available. Table 2 presents the PCOCs.

3.0 SAMPLING

The proposed sampling specifications (number and type of samples) for each IHSS, PAC, and UBC Site are listed in Table 3. Proposed new sampling locations are the starting point for IHSS Group characterization. After characterization starts, the number and type of samples may change based on sampling results. Changes to sampling specifications will be considered in consultation with the regulatory agencies.

Three types of sampling strategies are used to determine sampling locations: statistical, geostatistical, and biased. Statistical grids have computer-generated random start points and orientations. Additionally, the grids have been extended outside the IHSS, PAC, or UBC Site to provide additional sampling locations if needed. Biased samples are based on existing data and geostatistical analysis was used where possible.

Where a new sampling location overlaps or is adjacent to an existing sampling location, the existing sampling location data will be used during evaluation.

Figure 1
FY02 IHSS Group Location Map

4.0 MAPS

Maps in this section are organized by IHSS Group. All existing sampling locations and existing data, where available, are presented, followed by the proposed new sampling locations.

5.0 REFERENCES

DOE, 1992 – 2001, Historical Release Report for the Rocky Flats Plant, Golden, Colorado

DOE, 2000, Rocky Flats Environmental Technology Site Industrial Area Data Summary Report, Golden, Colorado, September

DOE, 2001a, Industrial Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June

DOE, 2001b, Final Data Summary Report for the Characterization of UBC's 123 and 886, Rocky Flats Environmental Technology Site, Golden, Colorado, August

Table 2
Potential Contaminants of Concern

IHSS Group	IHSS/PAC/UBC Site	PCOCs	Media	Data Source	Sampling Location Method
800-4	UBC 886 – Critical Mass Laboratory	Radionuclides (Am-241, Pu-239/240, U-234, U-235, U-238) Metals (Cu, Hg, Mg, Sr, Zn) VOCs	Surface and Subsurface Soil Subsurface Soil	Data Summary Report for the Characterization of UBC's 123 and 886 (DOE 2001b) HRR (DOE 1992 - 2001) IA Data Summary Report (DOE 2000)	Statistical grid
	800-164 2 – Radioactive Site #2 800 Area Building 886 Spill	Radionuclides (Am-241, Pu-239/240, U-235) Metals (As, Ba, Co, Cu, Fe, Hg, Li, Mg, Mn, Ni, Sr, Zn) SVOCs (bis, 2-ethylhexyl-phthalate, fluoranthene, pyrene) VOCs (1,2-dichloroethene, methylene chloride, bis(2-ethylhexyl)phthalate, trichloroethene)	Subsurface Soil Surface and Subsurface Soil Subsurface Soil	IA Data Summary Report (DOE 2000) Data Summary Report for the Characterization of UBC's 123 and 886 (DOE 2001b)	Statistical grid
	000-121 – OPWL 250-Gallon Sump	Radionuclides	Subsurface Soil	Process Knowledge	Biased locations below and near sump
	000-121 – OPWL Two 250-Gallon Steel Tanks	Radionuclides (Am-241, Pu-239/240, U, Ra-226) Metals (Ba, Co, Fe, Mn) NO ₂ , NO ₃	Subsurface Soil	HRR (DOE 1992 - 2001) IA Data Summary Report (DOE 2000)	Biased locations below and near tank
	000-121 – OPWL 500-Gallon Steel Tank	Radionuclides (Am-241, Pu-239/240, U, Ra-226) Metals (Ba, Co, Fe, Mn) NO ₂ , NO ₃	Subsurface Soil	HRR (DOE 1992 - 2001) IA Data Summary Report (DOE 2000)	Biased location near tank

Table 2 - Acronyms

Am	americium	Ni	nickel
As	arsenic	NO ₃	nitrate
Ba	barium	NO ₂	nitrite
Co	cobalt	PCOC	potential contaminant of concern
Cu	copper	Pu	plutonium
Fe	iron	Sr	strontium
Hg	mercury	SVOC	semi volatile organic compound
Li	lithium	U	uranium
Mg	magnesium	VOC	volatile organic compound
Mn	manganese	Zn	zinc

Table 3
Sampling Specifications

Location Code	Eastings	Northings	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
800-4	2084364 00	749181 26	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	2084364 00	749181 26	Surface Soil	0'- 5'	Metals	6200	6010
	2084364 00	749181 26	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	2084364 00	749181 26	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	2084364 00	749181 26	Subsurface Soil	5'-2 5'	Metals	6200	6010
	2084382 00	749150 08	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	2084382 00	749150 08	Surface Soil	0'- 5'	Metals	6200	6010
	2084382 00	749150 08	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	2084382 00	749150 08	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	2084382 00	749150 08	Subsurface Soil	5'-2 5'	Metals	6200	6010
	2084400 00	749118 90	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	2084400 00	749118 90	Surface Soil	0'- 5'	Metals	6200	6010
	2084400 00	749118 90	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	2084400 00	749118 90	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	2084400 00	749118 90	Subsurface Soil	5'-2 5'	Metals	6200	6010
	2084418 00	749150 08	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	2084418 00	749150 08	Surface Soil	0'- 5'	Metals	6200	6010
	2084418 00	749150 08	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	2084418 00	749150 08	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	2084418 00	749150 08	Subsurface Soil	5'-2 5'	Metals	6200	6010
	2084436 00	749181 26	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	2084436 00	749181 26	Surface Soil	0'- 5'	Metals	6200	6010
	2084436 00	749181 26	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	2084436 00	749181 26	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	2084436 00	749181 26	Subsurface Soil	5'-2 5'	Metals	6200	6010
	2084400 00	749056 55	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	2084400 00	749056 55	Surface Soil	0'- 5'	Metals	6200	6010

IHSS Code	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		CI38-B008	2084400 00	749056 55	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B008	2084400 00	749056 55	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B008	2084400 00	749056 55	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A009	2084418 00	749087 73	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A009	2084418 00	749087 73	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B009	2084418 00	749087 73	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B009	2084418 00	749087 73	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B009	2084418 00	749087 73	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A010	2084436 00	749118 90	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A010	2084436 00	749118 90	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B010	2084436 00	749118 90	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B010	2084436 00	749118 90	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B010	2084436 00	749118 90	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI39-A004	2084472 00	749181 26	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI39-A004	2084472 00	749181 26	Surface Soil	0'- 5'	Metals	6200	6010
		CI39-B004	2084472 00	749181 26	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI39-B004	2084472 00	749181 26	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI39-B004	2084472 00	749181 26	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A012	2084418 00	749025 37	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A012	2084418 00	749025 37	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B012	2084418 00	749025 37	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B012	2084418 00	749025 37	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B012	2084418 00	749025 37	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A013	2084436 00	749056 55	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A013	2084436 00	749056 55	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B013	2084436 00	749056 55	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B013	2084436 00	749056 55	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B013	2084436 00	749056 55	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A016	2084490 00	749150 08	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A016	2084490 00	749150 08	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B016	2084490 00	749150 08	Subsurface Soil	5'-2 5'	VOCs	8260	8260

Site	THSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
800-164 2 - Radioactive Site #2 800 Area Building 886 Spill	Room 101 Biased Samples	CI38-B016	2084490 00	749150 08	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B016	2084490 00	749150 08	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI39-A005	2084508 00	749181 26	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI39-A005	2084508 00	749181 26	Surface Soil	0'- 5'	Metals	6200	6010
		CI39-B005	2084508 00	749181 26	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI39-B005	2084508 00	749181 26	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI39-B005	2084508 00	749181 26	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A020	2084508 00	749118 90	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A020	2084508 00	749118 90	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B020	2084508 00	749118 90	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B020	2084508 00	749118 90	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B020	2084508 00	749118 90	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A034	2084411 63	749049 31	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A035	2084412 66	749049 31	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A036	2084420 71	749032 54	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A037	2084422 38	749041 43	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A038	2084432 66	749036 70	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI39-A001	2084364 00	749181 26	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
800-164 2 - Radioactive Site #2 800 Area Building 886 Spill	Room 101 Biased Samples	CI39-A001	2084364 00	749181 26	Surface Soil	0'- 5'	Metals	6200	6010
		CI39-B001	2084364 00	749181 26	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI39-B001	2084364 00	749181 26	Subsurface Soil	5'-2 5'	SVOCs	N/A	8270
		CI39-B001	2084364 00	749181 26	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI39-B001	2084364 00	749181 26	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A001	2084364 00	749118 90	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A001	2084364 00	749118 90	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B001	2084364 00	749118 90	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B001	2084364 00	749118 90	Subsurface Soil	5'-2 5'	SVOCs	N/A	8270
		CI38-B001	2084364 00	749118 90	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B001	2084364 00	749118 90	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A003	2084364 00	749056 55	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec

Location	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
		CI38-A003	2084364 00	749056 55	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B003	2084364 00	749056 55	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B003	2084364 00	749056 55	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B003	2084364 00	749056 55	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A004	2084382 00	749087 73	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A004	2084382 00	749087 73	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B004	2084382 00	749087 73	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B004	2084382 00	749087 73	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B004	2084382 00	749087 73	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A007	2084382 00	749025 37	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A007	2084382 00	749025 37	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B007	2084382 00	749025 37	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B007	2084382 00	749025 37	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B007	2084382 00	749025 37	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A011	2084454 00	749150 08	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A011	2084454 00	749150 08	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B011	2084454 00	749150 08	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B011	2084454 00	749150 08	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B011	2084454 00	749150 08	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A014	2084454 00	749087 73	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A014	2084454 00	749087 73	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B014	2084454 00	749087 73	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B014	2084454 00	749087 73	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B014	2084454 00	749087 73	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A015	2084472 00	749118 90	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A015	2084472 00	749118 90	Surface Soil	0'- 5'	Metals	6200	6010
		CI38-B015	2084472 00	749118 90	Subsurface Soil	5'-2 5'	VOCs	8260	8260
		CI38-B015	2084472 00	749118 90	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
		CI38-B015	2084472 00	749118 90	Subsurface Soil	5'-2 5'	Metals	6200	6010
		CI38-A017	2084454 00	749025 37	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
		CI38-A017	2084454 00	749025 37	Surface Soil	0'- 5'	Metals	6200	6010

IBSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth	Analyte	Onsite Method	Offsite Laboratory Method
	CI38-B017	2084454 00	749025 37	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	CI38-B017	2084454 00	749025 37	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	CI38-B017	2084454 00	749025 37	Subsurface Soil	5'-2 5'	Metals	6200	6010
	CI38-A018	2084472 00	749056 55	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	CI38-A018	2084472 00	749056 55	Surface Soil	0'- 5'	Metals	6200	6010
	CI38-B018	2084472 00	749056 55	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	CI38-B018	2084472 00	749056 55	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	CI38-B018	2084472 00	749056 55	Subsurface Soil	5'-2 5'	Metals	6200	6010
	CI38-A019	2084490 00	749087 73	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	CI38-A019	2084490 00	749087 73	Surface Soil	0'- 5'	Metals	6200	6010
	CI38-B019	2084490 00	749087 73	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	CI38-B019	2084490 00	749087 73	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	CI38-B019	2084490 00	749087 73	Subsurface Soil	5'-2 5'	Metals	6200	6010
	CI38-A021	2084490 00	749025 37	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	CI38-A021	2084490 00	749025 37	Surface Soil	0'- 5'	Metals	6200	6010
	CI38-B021	2084490 00	749025 37	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	CI38-B021	2084490 00	749025 37	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	CI38-B021	2084490 00	749025 37	Subsurface Soil	5'-2 5'	Metals	6200	6010
	CI38-A022	2084508 00	749056 55	Surface Soil	0'- 5'	Radionuclides	HPGe	Alpha Spec
	CI38-A022	2084508 00	749056 55	Surface Soil	0'- 5'	Metals	6200	6010
	CI38-B022	2084508 00	749056 55	Subsurface Soil	5'-2 5'	VOCs	8260	8260
	CI38-B022	2084508 00	749056 55	Subsurface Soil	5'-2 5'	Radionuclides	HPGe	Alpha Spec
	CI38-B022	2084508 00	749056 55	Subsurface Soil	5'-2 5'	Metals	6200	6010
OPWL	CI38-F024	2084379 86	749106 67	Subsurface Soil	8 5'-10 5'	Radionuclides	HPGe	Alpha Spec
	CI38-F024	2084379 86	749106 67	Subsurface Soil	8 5'-10 5'	VOCs	8260	8260
	CI38-F024	2084379 86	749106 67	Subsurface Soil	8 5'-10 5'	SVOCs	N/A	8270
	CI38-F024	2084379 86	749106 67	Subsurface Soil	8 5'-10 5'	Metals	6200	6010
Foundation Drain	CI38-I024	2084379 86	749106 67	Subsurface Soil	14 5'-16 5'	Radionuclides	HPGe	Alpha Spec
	CI38-I024	2084379 86	749106 67	Subsurface Soil	14 5'-16 5'	VOCs	8260	8260
	CI38-I024	2084379 86	749106 67	Subsurface Soil	14 5'-16 5'	SVOCs	N/A	8270
	CI38-I024	2084379 86	749106 67	Subsurface Soil	14 5'-16 5'	Metals	6200	6010

Location	Location Code	Easting	Northing	Media	Depth (Interval)	Analyte	Onsite Method	Offsite Laboratory Method
IHSS/PAC/UBC Site	CI38-F025	2084362 06	749063 79	Subsurface Soil	8 5'-10 5'	Radionuclides	HPGe	Alpha Spec
	CI38-F025	2084362 06	749063 79	Subsurface Soil	8 5'-10 5'	VOCs	8260	8260
	CI38-F025	2084362 06	749063 79	Subsurface Soil	8 5'-10 5'	SVOCs	N/A	8270
	CI38-F025	2084362 06	749063 79	Subsurface Soil	8 5'-10 5'	Metals	6200	6010
	CI38-F026	2084385 57	749062 59	Subsurface Soil	8 5'-10 5'	Radionuclides	HPGe	Alpha Spec
	CI38-F026	2084385 57	749062 59	Subsurface Soil	8 5'-10 5'	VOCs	8260	8260
	CI38-F026	2084385 57	749062 59	Subsurface Soil	8 5'-10 5'	SVOCs	N/A	8270
	CI38-F026	2084385 57	749062 59	Subsurface Soil	8 5'-10 5'	Metals	6200	6010
	CI38-F028	2084381 50	749041 33	Subsurface Soil	8 5'-10 5'	Radionuclides	HPGe	Alpha Spec
	CI38-F028	2084381 50	749041 33	Subsurface Soil	8 5'-10 5'	VOCs	8260	8260
	CI38-F028	2084381 50	749041 33	Subsurface Soil	8 5'-10 5'	SVOCs	N/A	8270
	CI38-F028	2084381 50	749041 33	Subsurface Soil	8 5'-10 5'	Metals	6200	6010
	CI38-F029	2084406 83	749040 29	Subsurface Soil	8 5'-10 5'	Radionuclides	HPGe	Alpha Spec
	CI38-F029	2084406 83	749040 29	Subsurface Soil	8 5'-10 5'	VOCs	8260	8260
	CI38-F029	2084406 83	749040 29	Subsurface Soil	8 5'-10 5'	SVOCs	N/A	8270
	CI38-F029	2084406 83	749040 29	Subsurface Soil	8 5'-10 5'	Metals	6200	6010
	CI38-F030	2084360 16	749106 15	Subsurface Soil	8 5'-10 5'	Radionuclides	HPGe	Alpha Spec
	CI38-F030	2084360 16	749106 15	Subsurface Soil	8 5'-10 5'	VOCs	8260	8260
	CI38-F030	2084360 16	749106 15	Subsurface Soil	8 5'-10 5'	SVOCs	N/A	8270
	CI38-F030	2084360 16	749106 15	Subsurface Soil	8 5'-10 5'	Metals	6200	6010
Foundation Drain Foundation Drain Foundation Drain Foundation Drain	CI38-F033	2084378 90	749053 17	Subsurface Soil	8 5'-10 5'	Radionuclides	HPGe	Alpha Spec
	CI38-F033	2084378 90	749053 17	Subsurface Soil	8 5'-10 5'	VOCs	8260	8260
	CI38-F033	2084378 90	749053 17	Subsurface Soil	8 5'-10 5'	SVOCs	N/A	8270
	CI38-F033	2084378 90	749053 17	Subsurface Soil	8 5'-10 5'	Metals	6200	6010
	CI38-I027	2084381 50	749041 35	Subsurface Soil	14 5'-16 5'	Radionuclides	HPGe	Alpha Spec
	CI38-I027	2084381 50	749041 35	Subsurface Soil	14 5'-16 5'	VOCs	8260	8260
	CI38-I027	2084381 50	749041 35	Subsurface Soil	14 5'-16 5'	SVOCs	N/A	8270
	CI38-I027	2084381 50	749041 35	Subsurface Soil	14 5'-16 5'	Metals	6200	6010

IISS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Laboratory Method
000-121- OPWL 250-Gallon Sump, OPWL Two 250-Gallon Steel Tanks (Tanks 21 and 22), and One 500-Gallon Steel Tank (Tank 27) (Building 828)	CI38-H023	2084359 12	749044 96	Subsurface Soil	12 5'-14 5'	Metals	6200	6010
	CI38-H023	2084359 12	749044 96	Subsurface Soil	12 5'-14 5'	Radionuclides	HPGe	Alpha Spec
	CI38-H023	2084359 12	749044 96	Subsurface Soil	12 5'-14 5'	Nitrate/Nitrite	N/A	9056
	CI38-H031	2084358 76	749053 52	Subsurface Soil	12 5'-14 5'	Radionuclides	HPGe	Alpha Spec
	CI38-H031	2084358 76	749053 52	Subsurface Soil	12 5'-14 5'	Nitrate/Nitrite	N/A	9056
	CI38-H031	2084358 76	749053 52	Subsurface Soil	12 5'-14 5'	Metals	6200	6010
	CI38-H032	2084354 52	749049 72	Subsurface Soil	12 5'-14 5'	Radionuclides	HPGe	Alpha Spec
	CI38-H032	2084354 52	749049 72	Subsurface Soil	12 5'-14 5'	Nitrate/Nitrite	N/A	9056
	CI38-H032	2084354 52	749049 72	Subsurface Soil	12 5'-14 5'	Metals	6200	6010

IHSS Group 800-4 Maps

Location of Existing Sample Results Above Detection Limits or Background Levels
Collected at UBC 886 (IHSS Group 800-4) in April 2001

Location of Existing Sample Results Above Detection Limits or Background Levels for
IHSS Group 800-4 (UBC 886, 000-121, and 800-164 2)

FY2002 Sampling Locations for IHSS Group 800-4

IA-A-000925

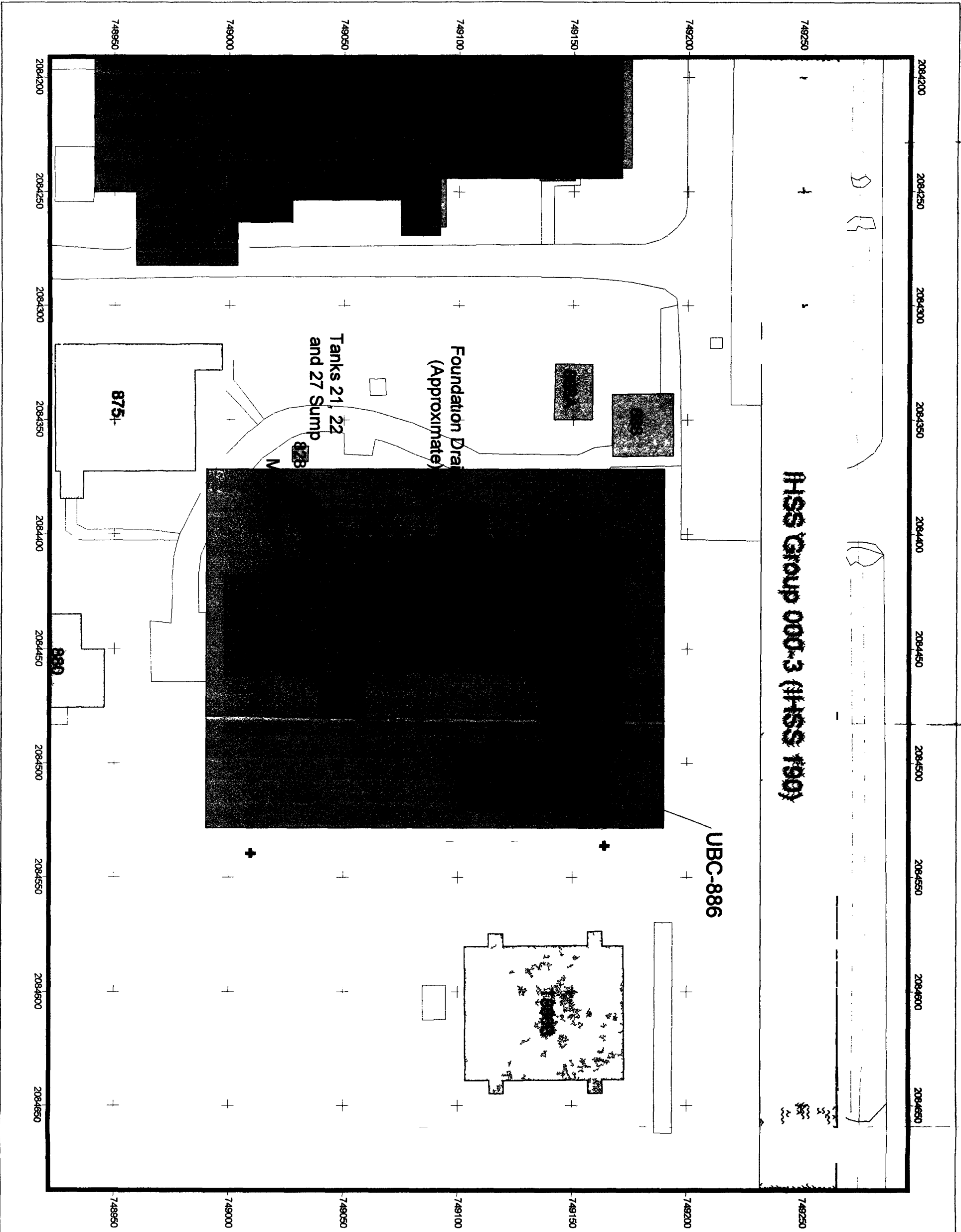


Figure 2
Potential Remediation Map
and Nearby IHSSs
IHSS Group 800-4
(800-164.2 and UBC 886)

KEY

- Foundation Drain (Approximate)
- Potential air sampling locations
- Adjacent and Nearby IHSSs
- FY 2002 IHSS location
- FY 2002 PAC location
- FY 2002 UBC location
- Building/structure
- Paved area
- Stream ditch or other drainage feature
- OPWL location (estimated)
- OPWL tank location (estimated)
- Existing soil sampling locations (50 ft buffer)
- Both subsurface and surface soil
- Subsurface soil
- Surface soil

N

Scale 1 750

20 0 20 40 60 Feet

State Plane Coordinate Projection
 Colorado Central Zone
 Datum NAD 27

U S Department of Energy
 Rocky Flats Environmental Technology Site

Prepared by

Prepared for



**Location of Existing Sample
Results Above Detection Limits or
Background Levels at 800-4
(800-164.2 and UBC 886)**

FY 2002 IHSS location

	FY 2002 PAC location
<input type="checkbox"/>	

EY 2002 UBC location

Building/structure

Paved area

Dirt road

Stream, ditch, or other drainage feature

Original process waste line

Existing soil sampling locations

surface soil

Subsurface soil

Surface oil



Scale = 1:300



State Plane Coordinate Projection

Colorado Central Zo

Datum: NAD 27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

repaired by:



Prepared for:



Postings-02.apr

3 December 2001

